

## Page 1 of 1

All amounts are calculated in domestic currency.

All Vendors PO ID PO27654 Receipt Dates from 3/13/2015 to 3/13/2015

**Total Received Quantity:**  
**Total Qty to Inspect (PO U/M):**  
**Total Reject Quantity:**  
**Total Receipt Value:**  
**Total Balance Due Quantity:**

## Shipping Order

12/03/2015

METAUX SOLUTIONS INC  
2625 BOUL JACQUES CARTIER EST  
LONGUEUIL, QUEBEC  
J4N 1L7 Tel.: 450 641-3330

Order : 104058  
Reference : 27654  
Bid : 12815  
Ship : PICK UP / PICK UP

Customer: 6323336

DART AEROSPACE LTD  
1270, ABERDEEN STREET  
HAWKESBURY, ONTARIO  
K6A 1K7

Ship To

Same

Tel.: 1 613 632-3336

Item No.	Description	Qty	Qty. Deliver	B/O Qty
TP12A2	A-2 PLATE TFA 1/2" THICK 12 X 1.25" X 127.5" -0+0 HT;PM5455	290	290	0
MP124130N	4130 NORM PLATE .500 THICK AMS 6345 40 X 3" X 14" HT;R9091	11.68	11.68	0

SHIP TST COLLECT  
JP

SP15-03-13

Shipping : \_\_\_\_\_  
Package No : \_\_\_\_\_

Ref. : \_\_\_\_\_

Merchandise Received: \_\_\_\_\_

SHIP TO:

ARCELORMITTAL PLATE LLC

## TEST CERTIFICATE

PAGE NO: 01 OF 02  
FILE NO: 2765-01-01  
MILL ORDER NO: 60866-001  
MELT NO: R9091  
DATE: 06/29/11

SOLD TO:

SEND TO:

01-C

## PLATE DIMENSIONS / DESCRIPTION

TOTAL QTY	GAUGE	WIDTH	LENGTH	DESCRIPTION	PIECE WEIGHT
30	.5"	72"	144"	RECTANGLE	1470#

## CUSTOMER INFORMATION

CUSTOMER PO: 031811MC

DAS  
14  
9-89

15/03/19

## SPECIFICATION(S)

THIS MATERIAL HAS BEEN MANUFACTURED AND TESTED IN ACCORDANCE WITH PURCHASE ORDER REQUIREMENTS AND SPECIFICATION(S).

AMS 6345B YR 07 AIRCRAFT

AMS 6345C YR. 11

UNS

AIRCRAFT QUALITY AMS 2301 REV. J ASTM A829

GRADE 4130, AISI 4130, MIL S-18729C CONDITION N

THE MANAGEMENT SYSTEMS FOR MANUFACTURE OF THIS PRODUCT ARE CERTIFIED TO ISO 9001:2000 (CERTIFICATE NO. 30130) AND ISO 14001 (CERTIFICATE NO. 009496).

## CHEMICAL COMPOSITION

	C	MN	P	S	CU	SI	NI	CR	MO
MELT: R9091	.30	.50	.010	.003	.12	.24	.09	.96	.20
PROD ANALYSIS	.31	.50	.010	.004	.11	.23	.08	.93	.19
	V	AL	CB						
MELT: R9091	.057	.016	.001						
PROD ANALYSIS	.054	.014	.001						

## MANUFACTURE

ELECTRIC FURNACE QUALITY - FINELINE - VACUUM DEGASSED - FINE GRAIN PRACTICE - MCQUAID-EHN GRAIN SIZE PER E112 - 7-8

## HEAT TREAT CONDITION

MATL OR TEST	HEAT TREAT DESCRIPTION	NOM TEMP	HOLD MINS	COOL MTHD
PL/TEST	NORMALIZE	1660F	28	AIR COOL

WE HEREBY CERTIFY THE ABOVE INFORMATION IS CORRECT:

ARCELORMITTAL PLATE LLC  
QUALITY ASSURANCE LABORATORY  
139 MODENA ROAD  
COATESVILLE, PA 19320

REVISED COPY 09/22/14

Elinore Zaplitny  
SUPERVISOR - TEST REPORTING  
ELINORE ZAPLITNY



## TEST CERTIFICATE

PAGE NO: 02 OF 02  
FILE NO: 2765-01-01  
MILL ORDER NO: 60866-001  
MELT NO: R9091  
DATE: 06/29/11

## MECHANICAL PROPERTIES

BEND TEST - BOT./TRANS. - PASS

BEND TEST - TOP/LONG. - PASS

DAS

14

9-89

15/03/19

## TENSILE PROPERTIES

LOC	DIR	YIELD STRENGTH PSI X 100	TENSILE STRENGTH PSI X 100	ELONGATION GAGE LGTH	%
BOT.	TRANS.	751	1159	2.00"	17.0
BOT.	TRANS.	770	1188	2.00"	18.0
TOP	TRANS.	748	1165	2.00"	16.0
TOP	TRANS.	776	1228	2.00"	17.0

## DECARB TESTING

LOC	DEPTH	SURFACE	SUBSURFACE
BOT.	.013	0	0
BOT.	.008	0	0
TOP	.008	0	0
TOP	.007	0	0

## OTHER METALLURGICAL AND MICROSTRUCTURAL TESTS

THERMAL RESPONSE TOP - 43 - GAUGE TESTED - .37500

THERMAL RESPONSE TOP - 41 - GAUGE TESTED - .37500

MAGNETIC PARTICLE - FREQUENCY .00001 - SEVERITY .00001

## GENERAL INFORMATION

ALL STEEL HAS BEEN MELTED AND MANUFACTURED IN THE U.S.A.  
MATERIAL HAS BEEN VACUUM DEGASSED AND CALCIUM TREATED  
FOR SULFIDE SHAPE CONTROL.  
MAG. PART. FREQ. AND SEVERITY RATING PER AMS-2031J.  
FOR MORE INFORMATION AND PROCESSING GUIDELINES, REFER TO  
WWW.ARCELORMITTAL.COM/PLATEINFORMATION

B/L #44747 MAVERICK TRANSPORTATION

WE HEREBY CERTIFY THE ABOVE  
INFORMATION IS CORRECT:

ARCELORMITTAL PLATE LLC  
QUALITY ASSURANCE LABORATORY  
139 MODENA ROAD  
COATESVILLE, PA 19320

*Elinore Zaplitny*  
SUPERVISOR - TEST REPORTING  
ELINORE ZAPLITNY



Jérôme Primeau  
Représentant aux ventes  
j.primeau@metauxolutions.com

2625, boul. Jacques Cartier Est  
Longueuil (Québec) J4N 1L7  
Tél. : 450 641-3330 Téléc. : 450 641-3332  
Tél. : 514 633-8010 Téléc. : 514 633-8044  
1 800 967-2003

www.metauxolutions.com

ORDERED: 06/27/14 PO#: 35732-F  
SHIPPED: 06/30/14 REF PO#:  
SP FROM: Finished Material - Washington  
REF NO.: 00SA

SHPVIA: WILL CALL  
TERMS : 1/28 10 Days, Net 30

SKIDS : 13 GROSS WT : 45654

PRODUCT DESCRIPTION

SHIPPED PCS SHIPPED LBS

A2-05000  
1/2 X 31-1/4" X 143-3/4" A2 PLT  
AIRTRUE DLX  
COUNTRY OF ORIGIN CHINA  
ASTM: A-681-08

1 669  
667

DAS  
14 15/03/19  
9-89

PLATE# : 306423A  
HEAT# : PM5455  
BHN : 231-238

C - 1.0200 Mn - 0.4700 P - 0.0170 S - 0.0020 Si - 0.2400  
Ni - 0.1300 Cr - 4.9000 Mo - 0.9300 Cu - 0.0600 V - 0.3400  
W - - - - -

A2-07500  
3/4 X 30-3/4" X 137-1/4" A2 PLT  
AIRTRUE DLX  
COUNTRY OF ORIGIN CHINA  
ASTM: A-681-08

1 928  
922

PLATE# : 306448A  
HEAT# : PM5366  
BHN : 226-244

C - 1.0200 Mn - 0.4800 P - 0.0160 S - 0.0020 Si - 0.1500  
Ni - 0.1200 Cr - 4.9000 Mo - 0.9600 Cu - 0.0400 V - 0.1800  
W - - - - -

\*\*\* Continued \*\*\*



## MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MSTEEL-A2  
DATE: 15/03/19

PO / BATCH NO.: 27654/M 131783

MATERIAL CERT REC'D: yes  
QUANTITY RECEIVED: 128'  
QUANTITY INSPECTED: 128'  
QUANTITY REJECTED: \_\_\_\_\_

THICKNESS ORDERED: .500X1.250  
THICKNESS RECEIVED: .500X1.300  
SHEET SIZE ORDERED: \_\_\_\_\_  
SHEET SIZE RECEIVED: \_\_\_\_\_

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORROSION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT MATERIAL	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
PHOTO REQUIRED	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT MATERIAL	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>14</u> <u>9-89</u>	SIGNED OFF BY: _____
DATE: <u>15/03/19</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

## MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M4130  
DATE: 15/03/19

PO / BATCH NO.: 27651/M131783

MATERIAL CERT REC'D: yes  
QUANTITY RECEIVED: 47'  
QUANTITY INSPECTED: 47'  
QUANTITY REJECTED: \_\_\_\_\_

THICKNESS ORDERED: .500 X 3.00  
THICKNESS RECEIVED: .510 X 3.150  
SHEET SIZE ORDERED: \_\_\_\_\_  
SHEET SIZE RECEIVED: \_\_\_\_\_

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y	N	
CORROSION	Y	<input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	N	
CORRECT MATERIAL	<input checked="" type="radio"/> Y	N	
CORRECT THICKNESS	<input checked="" type="radio"/> Y	N	
PHOTO REQUIRED	Y	<input checked="" type="radio"/> N	
CORRECT MATERIAL	<input checked="" type="radio"/> Y	N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	N	
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
<p>INSPECTED BY: <u>DAS 14</u> DATE: <u>15/03/19</u></p>	<p>SIGNED OFF BY: _____ DATE: _____</p>

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in





Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO27654**

Purchase Order Date 3/4/2015

PO Print Date 3/4/2015

Page Number 1 of 2

Order From : VC-MET002  
METAUX SOLUTIONS  
2625 BOUL JACQUES-CARTIER EST  
LONGUEUIL, QC J4N 1L7  
CA

Ship To : DART AEROSPACE LTD  
1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**FAXED**

Contact Name  
Vendor Phone 800 558 8858

Ship To Contact  
Ship To Phone  
Ship Via: TST Overland  
Ship Acct:

Buyer  
Customer POID  
Customer Tax # 10127-2607  
Terms Net 30  
Currency CAD  
FOB Destination-Collect

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	M4130NB0.500X03.000	4130 Bar 0.500 x 3.00	3/9/2015 Yes 3/9/2015		47.00 f	\$29.77	\$1,399.15
MATERIAL: AISI 4130N STEEL BAR PER MIL-S-6758 OR AMS 6345/6348/6370/6528							
40 PCS CUT TO SIZE 14"							
Line Total:							\$1,399.15
2	MSTEEL-A2-B0.500X1.250	AISI A2 TOOL STEEL BAR, 0.500 X 1.250	3/9/2015 Yes 3/9/2015		128.00 f	\$12.96	\$1,658.88
MATERIAL: AISI A2 TOOL STEEL, ANNELED CONDITION AS PER A681							
TOLERANCE -0+0" AS PER QUOTATION #12815 CUT AT 1.25"							
Line Total:							\$1,658.88

SP15-03-13

Note:

3/4/2015





Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO27654**

Purchase Order Date 3/4/2015

PO Print Date 3/4/2015

Page Number 2 of 2

**Order From :**  
METAUX SOLUTIONS  
2625 BOUL JACQUES-CARTIER EST  
LONGUEUIL, QC J4N 1L7  
CA

VC-MET002

**Ship To :** DART AEROSPACE LTD  
1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**Contact Name**  
**Vendor Phone** 800 558 8858  
  
**Ship To Contact**  
**Ship To Phone**  
**Ship Via:** TST Overland  
**Ship Acct:**

**Buyer** Chantal Lavoie  
**Customer POID**  
**Customer Tax #** 10127-2607  
**Terms** Net 30  
**Currency** CAD  
**FOB** Destination-Collect

3	71401-45	PROCUREMENT QUALITY CLAUSES	3/9/2015	1.00	\$0.00	\$0.00
			No 3/9/2015			

Procurement Quality Clauses  
A005 right of entry  
A012 chemical and physical test report  
A016 personnel qualification  
A017 raw material identification (as applicable)  
A026 certification of material conformance  
A041 quality management system  
A042 dart notification by supplier  
A043 retention of quality document

895-03-13

**Line Total:** \$0.00

**PO Total:** \$3,058.03

W  
CH

**Note:** Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dartaerospace.com](http://www.dartaerospace.com) for further explanation.

Change Nbr: 2

Change Date: 3/4/2015